

be pulled out of the hole and the expandable plug 10 lowered into the wellbore. When the expandable plug 10 is lowered to a desired depth, some time is allowed for the plug 10 to equalize to the temperature of the wellbore. The setting process is then started by firing the igniter 24, which initiates the propellant stick 28 to create heat and to generate gas in the chamber 30. The increase in pressure in the chamber 30 creates a differential pressure across the power piston 32, whose other side is at atmospheric chamber. Due to the increased heat, the expandable element 12 becomes molten. As a result, the resistance against movement of the power piston 32 is removed so that the gas pressure in the chamber 30 pushes the power piston 32 upwardly. The molten element 12 is displaced and expands to deform the sleeve 14, which due to the increased temperature is now exhibiting superplastic characteristics. As best shown in Fig. 2, the sleeve 14 radially deforms outwardly by force applied by the power piston 32 so that the sealing element 43 is pressed against the inner wall of the casing 40.

In the Drawings:

Attached are two pages of drawings amended in red ink. The changes presented bring the drawings into conformance with the invention as described in the specification. No new matter is presented. Corrected formal drawings will be provided directly to the official draftsman.

In Figure 1, the second reference to 42 has been changed to 43.

In Figure 5, the reference lines have been moved to indicate the appropriate structures as recited in the detailed description of the invention.

In Figure 6, reference number 210 has been changed to 212 to conform with the description of the invention.